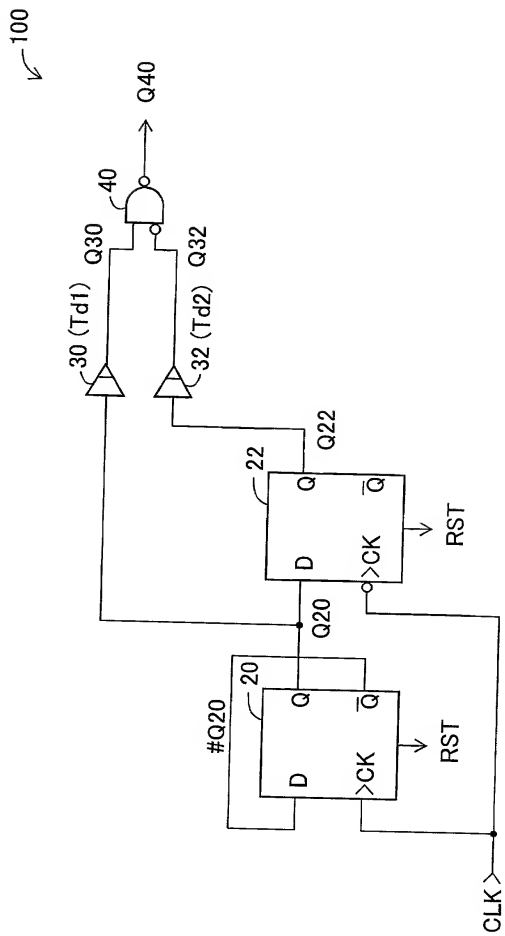


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Fig. 1



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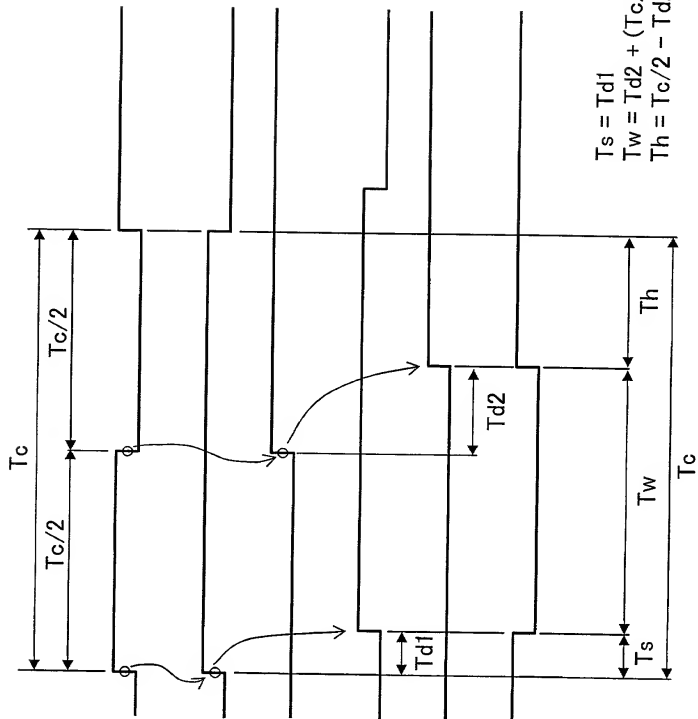


Fig. 2a CLK

Fig. 2b Q20

Fig. 2c Q22

Fig. 2d Q30

Fig. 2e Q32

Fig. 2f Q40

$$\begin{aligned} T_s &= T_{d1} \\ T_w &= T_{d2} + (T_c/2 - T_{d1}) \\ T_h &= T_c/2 - T_{d2} \end{aligned}$$

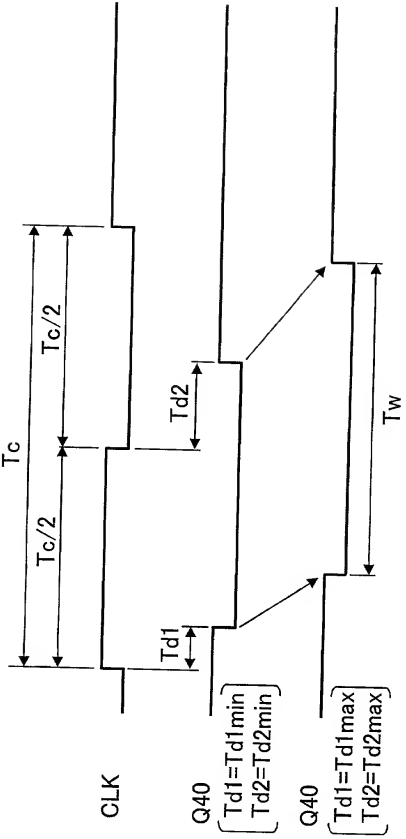


Fig. 3a

Fig. 3b

Fig. 3c

When $T_{d1} < T_{d2}$

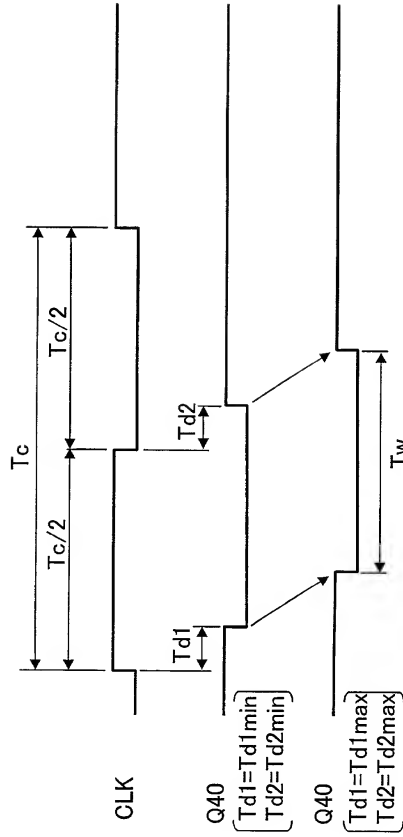


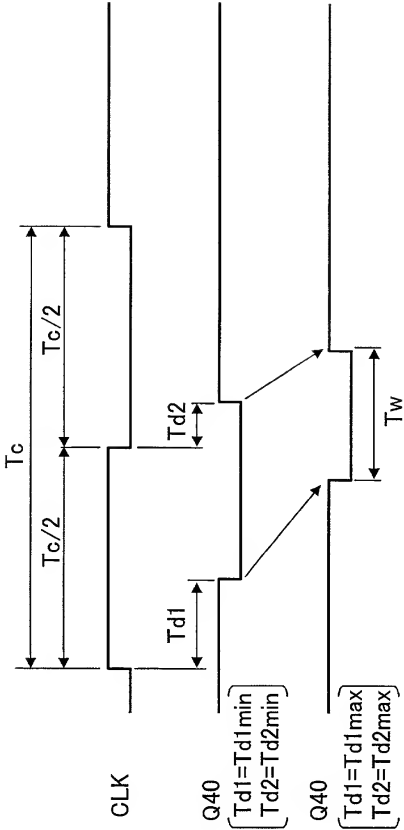
Fig. 4a CLK

Fig. 4b

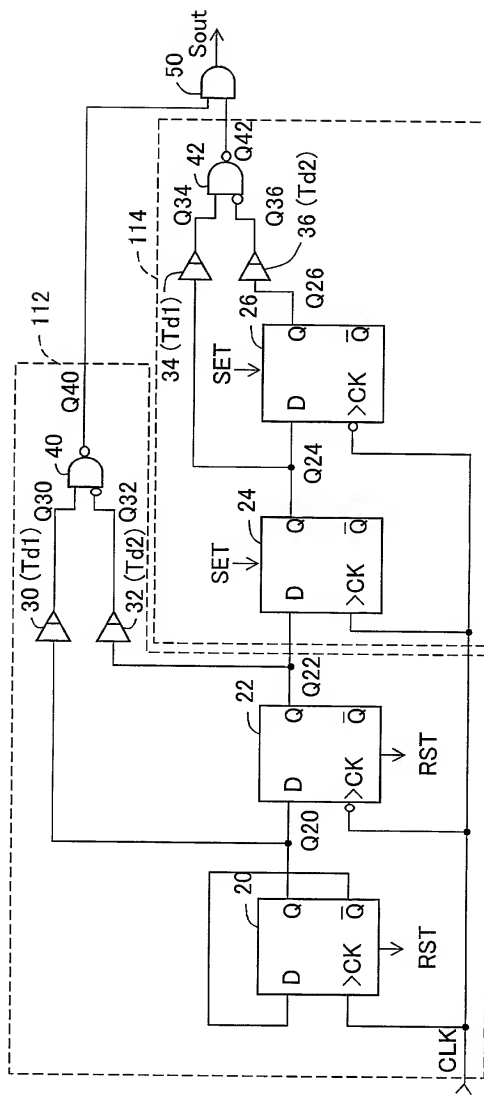
Fig. 4C

When $T_{d1} = T_{d2}$

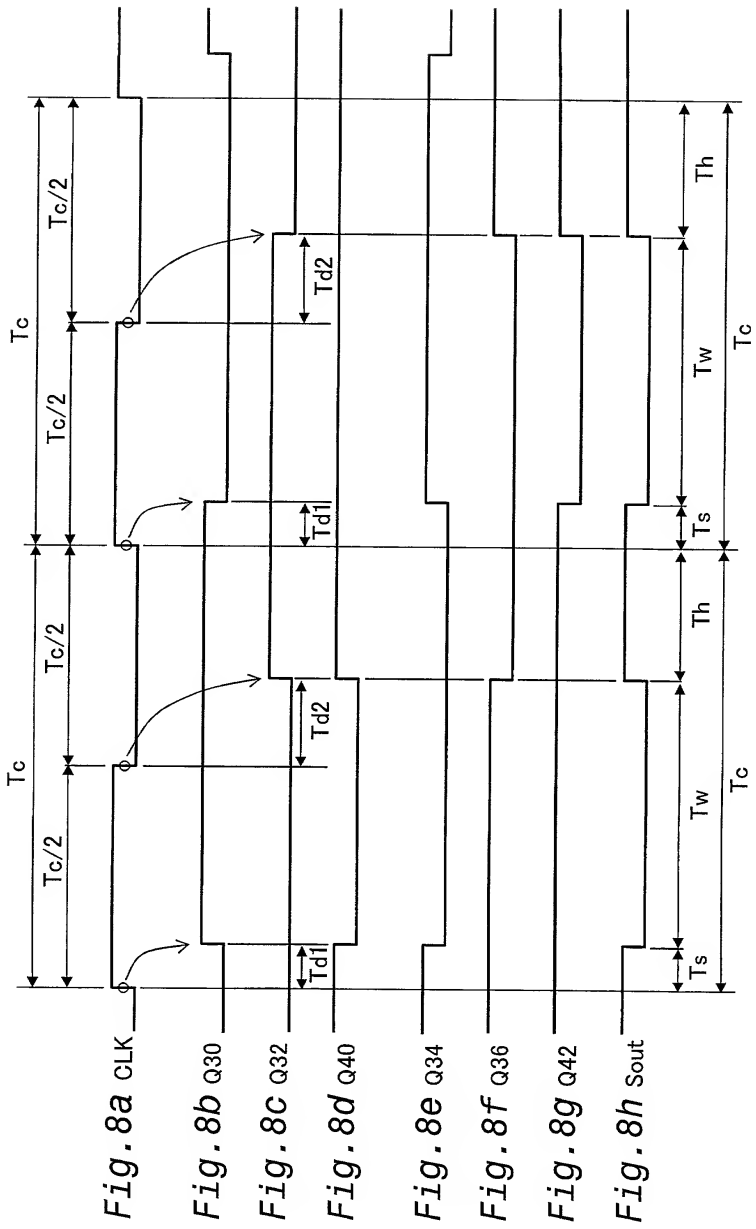
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Fig.9

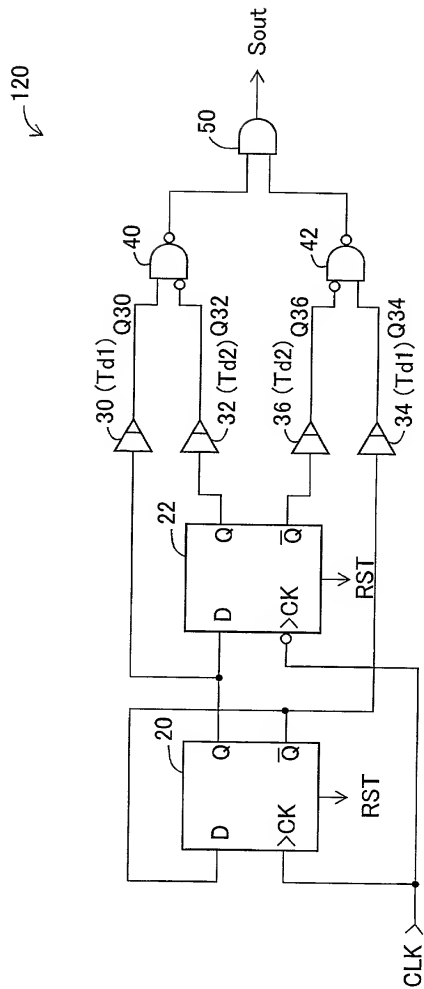


FIG. 10

Fig. 10

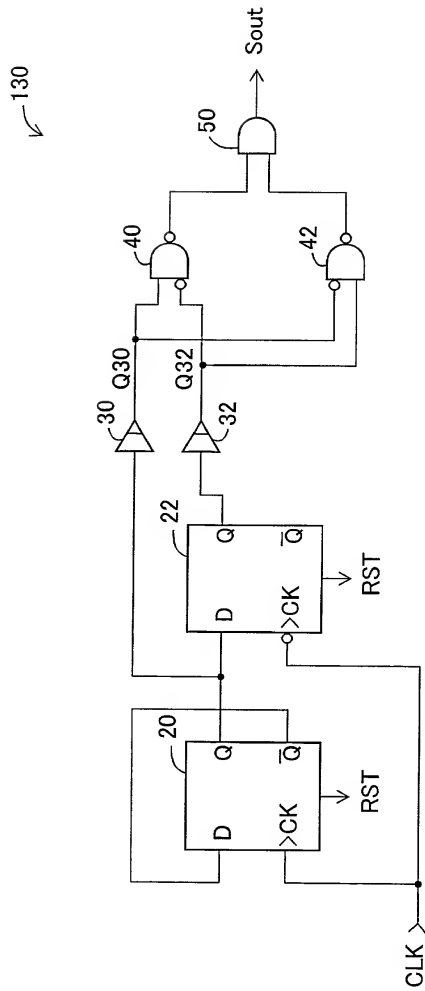


FIG. 11

Fig. 11

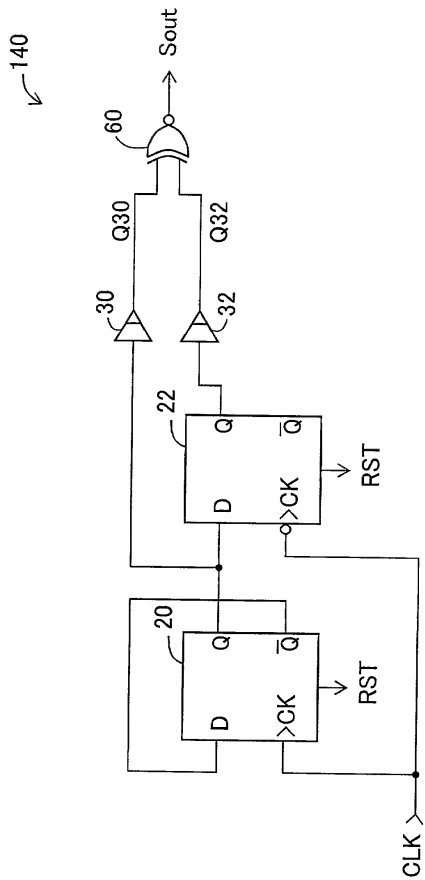
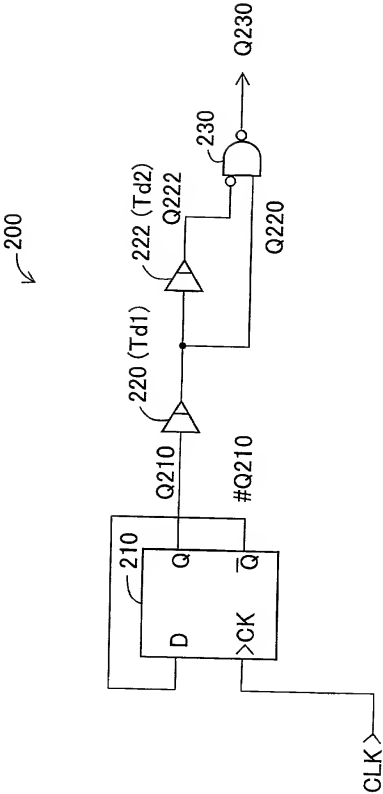


Fig. 13



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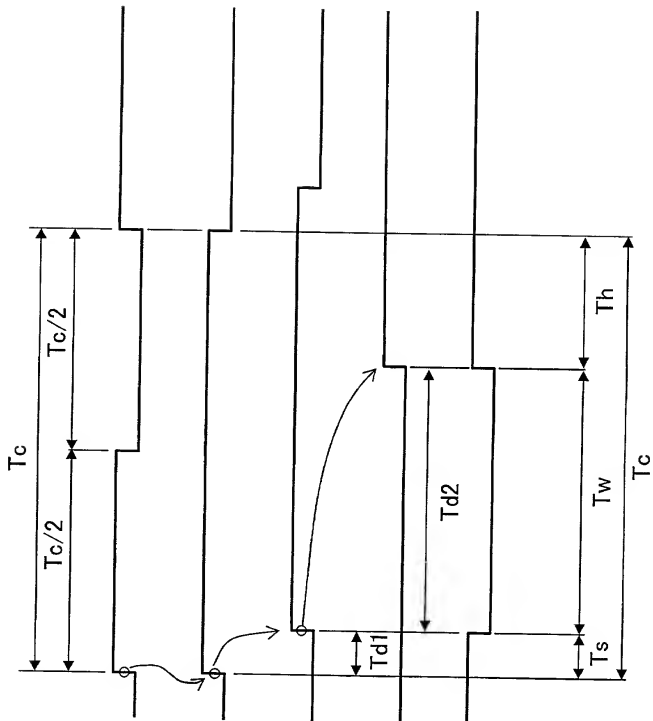


Fig. 14a CLK

Fig. 14b Q210

Fig. 14c Q220

Fig. 14d Q222

Fig. 14e Q230